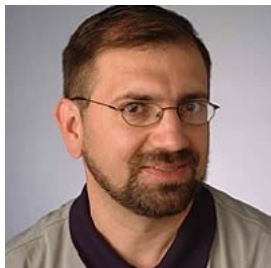


# Syracuse University

## College of Arts & Sciences

### Liviu Movileanu

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#### Professor

Physics Department

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[CV \(.pdf\)](#)

[Research Page](#)

### Research Interests

- Single-molecule and Membrane Biophysics.
- Bionanotechnology.
- Nanofluidics.
- Biosensors and Functional Biomaterials.
- Membrane protein design.

### News Articles

[Physicist Awarded NIH Grant to Enhance Protein Detection](#)

[Syracuse Physicist Liviu Movileanu Receives \\$1.17 Million NIH Grant to Create 'Nanobiosensors'](#)

### Education

1997      Ph.D. in Biophysics  
            University of Bucharest

1990      M.S. Polymer Physics  
            University of Bucharest

1989      B.S. in Physics  
            University of Bucharest

### Selected Publications

A.J. Wolfe, J.F. Gugel, M. Chen, and L. Movileanu, 2018, Detergent Desorption of Membrane Proteins Exhibits Two Kinetic Phases, *J. Phys. Chem. Lett.* 9, 1913-1919. PMID: PMC5908730

A.J. Wolfe, W. Si, F. Zhang, AR. Blanden, Y.C. Hsueh, J.F. Gugel, B. Pham, M. Chen, S.N. Loh, S. Rozovsky, A. Aksimentiev, and L. Movileanu, 2017, Quantification of Membrane Protein-Detergent Complex Interactions, *J. Phys. Chem. B* 121(44), 10228-10241. PMID: [PMC5680101](#)

A.K. Thakur, M.G. Larimi, K. Gooden, and L. Movileanu, 2017, Aberrantly large single-channel conductance of polyhistidine arm-containing protein nanopores, *Biochemistry* 56(36), 4895-4905. PMID: [PMC5595664](#)

A.J. Wolfe, Y.C. Hsueh, A.R. Blanden, M.M. Mohammad, B. Pham, A.K. Thakur, S.N. Loh, M. Chen, and L. Movileanu, 2017, Interrogating Detergent Desolvation of Nanopore-forming Proteins by Fluorescence Polarization Spectroscopy, *Anal. Chem.* 89(15), 8013-8020. PMID: [PMC5558884](#)

S. Couoh-Cardel, Y.C. Hsueh, S. Wilkens, and L. Movileanu, 2016, Yeast V-ATPase Proteolipid Ring Acts as a Large-conductance Transmembrane Protein Pore, *Sci. Rep.* 6, 24774. PMID: [PMC4838861](#)

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